

Bianca Plouffe  
School of Medicine, Dentistry and Biomedical Sciences  
Wellcome-Wolfson Institute for Experimental Medicine  
Room 01-019  
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## Research Interests

### Training/Positions held

#### **2024-present Senior Lecturer**

Wellcome-Wolfson Institute for Experimental Medicine  
School of Medicine, Dentistry and Biomedical Sciences  
Queen's University Belfast, UK

#### **2021-2024 Lecturer**

Wellcome-Wolfson Institute for Experimental Medicine  
School of Medicine, Dentistry and Biomedical Sciences  
Queen's University Belfast, UK

#### **2018-2021 Vice-Chancellor's Fellow**

Wellcome-Wolfson Institute for Experimental Medicine  
School of Medicine, Dentistry and Biomedical Sciences  
Queen's University Belfast, UK

#### **2012-2018 Postdoctoral Fellow**

Supervisor: Prof Michel Bouvier  
Research Focus: Investigation of GPCR bias and signalling using BRET-based technology  
Institute for Research in Immunology and Cancer  
University of Montreal, Canada

#### **2006-2011 PhD Neuroscience**

Supervisor: Prof Mario Tiberi  
Project Title: Comprehensive model of G protein-coupled receptor regulation by Protein Kinase C: insight from dopamine D1 and D5 receptor studies.  
Brain and Mind Research Institute  
University of Ottawa, Canada

#### **2003-2005 MSc Physiology**

Supervisor: Prof Nicole Gallo-Payet  
Project Title: Role of TrkA receptor in Angiotensin II AT<sub>2</sub> receptor signalling.  
Department of Medicine  
University of Sherbrooke, Canada

#### **2000-2003 BSc Biochemistry (Coop program)**

Department of Biochemistry  
University of Sherbrooke, Canada

### Research Interests

Dr Plouffe's research focuses on the pharmacology and signalling of G protein-coupled receptors (GPCRs). GPCRs represent the largest family of cell surface proteins (~800 members) and participate in the control of virtually all physiological functions by mediating most of our responses to hormones, neurotransmitters and environmental stimulants such as odorants, tastants and light. For this reason, GPCRs are the targets of ~50% of all prescribed drugs worldwide and the most important target of current pharmaceutical development and industry.

The Plouffe group is primarily interested in 2 aspects of GPCR pharmacology and signalling:

- 1- **The spatial properties of GPCR signalling.** In other words, how does the subcellular location of these receptors shape their cellular response?
- 2- **The structural determinants of allostery and biased GPCR signalling.** In other words, which residues tune the receptor response up or down or preferentially select a signalling pathway over another?

“Our central goal is to increase our understanding of these important aspects of GPCR signalling to propose new and better pharmacotherapeutic options (increased efficacy and reduced side effects) for a wide range of diseases”.

Dr Plouffe has published her work in respected and high impact journals and her research has been recognized worldwide in prestigious Awards including Fellowships from the Canadian Institutes for Health Research and Diabetes Canada, as well as Awards from Diabetes UK, the Wellcome Trust and the UKRI Biotechnology and Biological Sciences Research Council.

### ***Join the team!***

The Plouffe group is welcoming applications from enthusiastic and ambitious students and postdoctoral researchers who wish to work at the cutting-edge of pharmacology and cellular signalling. Please contact Dr Bianca Plouffe for further information (b.plouffe@qub.ac.uk).

### **Current projects in the lab**

- 1- To investigate the mechanisms translating Gq signalling from endosomes.
- 2- To unleash the neuroprotective function of the prostaglandin receptor EP2.
- 2- To delineate the role of secreted Frizzled related protein 2 in the pathogenesis of diabetic retinopathy.
- 3- To investigate the role of US28 subcellular location in its oncomodulatory properties in the context of glioblastoma.
- 4- To understand allosteric and biased GPCR signalling to design new therapeutic molecules.

### **Past and present group members**

#### ***Postdoctoral Research Fellows***

- Dr Carole Daly (2023-present)
- Dr Kanhaya Lal (2021-2023; co-supervision)

#### ***Technicians***

- Shane Houston (2019-2020)

#### ***PhD Students***

- Samantha Collister (2024-present; BBSRC/NorthWestBio DTP)
- Olivia Lucianno (2024-present; co-supervision, BBSRC/NorthWestBio DTP)
- Adam Wright (2023-present; DfE Studentship)
- Enyu Jin (2023-present; co-supervision)
- Kara Gizmul (2022-present; co-supervision, Turkish Ministry of Education Studentship)
- Akim Guseynov (2021-present; co-supervision, Horizon 2020 CITI-GENS Marie Curie studentship)
- Tianyi Ding (2019-2024; co-supervision)
- Carole Daly (2019-2022; DfE Studentship)

#### ***MSc Students***

- Adam Wright (MSc in Exp Medicine 2022-2023)
- Stephen Copeland (MSc in Exp Medicine 2019-2020)

#### ***BSc Students***

- Niamh Jonston (Biomedical Sciences 2023-2024)
- Connor McGill (Biological Sciences 2023-2024)
- Curtis Buchanan (Biological Sciences 2023)
- Padhraig McNicoll (Biomedical Sciences 2022-2023)
- Adam McShane (Biomedical Sciences 2019-2020)

#### ***Summer Students***

- Lee Orr 2024 (Nuffield Research Placement)
- Helena Lalwani 2024 (Pharmacy, Indonesia International Institute for Life Sciences, Indonesia)
- Ashraf Mahmoud 2023 (Medical School, Kilimanjaro Christian Medical University College, Tanzania)
- Éloïse Heulet 2019 (Advanced Biology, Université de Nantes, France)
- Lenka Toderova 2019 (Nuffield Research Placement)
- Cole Roberts 2019 (Medical School, University of Dundee, UK)

## **Projects**

### **1. R1719CEM: Investigation of the mechanisms underlying endosomal Gq signalling**

Plouffe, B. (PI), School of Medicine, Dentistry and Biomedical Sciences  
19/09/2022 → ...

Collaborators                      New York University, University of Oxford, University of Nottingham

Project: Research

2. **R2639CEM: Non-canonical G protein signalling: toward new therapeutic avenues for type 2 diabetes**  
Plouffe, B. (PI), School of Medicine, Dentistry and Biomedical Sciences  
11/09/2019 → ...  
Collaborators            Columbia University  
Project: Research
3. **R2636CEM: Defining key mechanisms underlying NOX4 signalling in endothelial colony-forming cells towards improved vasoreparative capacity in ischaemic disease**  
Grieve, D. (PI), School of Medicine, Dentistry and Biomedical Sciences  
Medina, R. (Col), School of Medicine, Dentistry and Biomedical Sciences  
Plouffe, B. (Col), School of Medicine, Dentistry and Biomedical Sciences  
Simpson, D. (Col), School of Medicine, Dentistry and Biomedical Sciences  
02/09/2019 → ...  
Project: Research
4. **R2552CEM: Non-canonical G protein signaling: toward new therapeutic avenues**  
  
Plouffe, B. (PI), School of Medicine, Dentistry and Biomedical Sciences  
04/01/2019 → 17/10/2021  
Project: Research

## Prizes and Awards

1. **New Investigator Award from the Biotechnology and Biological Sciences Research Council (£450,733)**  
Plouffe, B. (Recipient), 08 Sept 2022  
Prize: Other distinction
2. **British Heart Foundation Research Grant (co-I 10%, £282,730)**  
Plouffe, B. (Recipient), 29 Sept 2019  
Prize: Other distinction
3. **Early-Career Small Grant for Basic Scientist from Diabetes UK (£15,000)**  
Plouffe, B. (Recipient), 11 Sept 2019  
Prize: Other distinction
4. **Seed Award from the Wellcome Trust (£106,848)**  
Plouffe, B. (Recipient), 21 Dec 2018  
Prize: Other distinction
5. **Vice-Chancellor's Fellowship from Queen's University Belfast (U.K.) (£202,000)**  
Plouffe, B. (Recipient), 06 Nov 2018  
Prize: Fellowship awarded competitively
6. **Travel Award from the Institute for Research in Immunology and Cancer (Canada) (\$1000)**  
Plouffe, B. (Recipient), 01 Jun 2017  
Prize: Prize (including medals and awards)
7. **Étudiants-Chercheurs Étoiles Award from Fonds de la Recherche du Québec en Santé (Canada) (\$1000)**  
Plouffe, B. (Recipient), 01 Oct 2016  
Prize: Prize (including medals and awards)
8. **Postdoctoral Fellowship Award from Diabetes Canada (\$80,000)**  
Plouffe, B. (Recipient), 01 Jul 2016  
Prize: Fellowship awarded competitively
9. **Postdoctoral Fellowship Award from Fonds de la Recherche du Québec en Santé (Canada) (\$90,000) - declined**  
Plouffe, B. (Recipient), 01 Apr 2012  
Prize: Fellowship awarded competitively
10. **Postdoctoral Fellowship Award from the Canadian Institutes for Health Research (\$135,000)**  
Plouffe, B. (Recipient), 01 Apr 2012  
Prize: Fellowship awarded competitively
11. **Tuition Fee Scholarship from University of Ottawa (Canada) (\$5,500)**  
Plouffe, B. (Recipient), 01 Sept 2010  
Prize: Fellowship awarded competitively
12. **Best Poster Award at the 2nd Brain Health Research Day from University of Ottawa (Canada) (\$100)**  
Plouffe, B. (Recipient), 01 Jun 2010  
Prize: Prize (including medals and awards)
13. **Best Poster Award at the 1st Brain Health Research Day from University of Ottawa (Canada) (\$100)**  
Plouffe, B. (Recipient), 01 Jun 2009  
Prize: Prize (including medals and awards)

14. **Graduate/Postdoctoral Travel Award from the American Society for Biochemistry & Molecular Biology (USA) (\$1000)**  
Plouffe, B. (Recipient), Apr 2008  
Prize: Prize (including medals and awards)
15. **Doctoral Studentship Award from Fonds de la Recherche du Québec en Santé (Canada) (\$60,000)**  
Plouffe, B. (Recipient), 01 Sept 2007  
Prize: Fellowship awarded competitively
16. **Excellence Scholarship from University of Ottawa (Canada) (\$18,000)**  
Plouffe, B. (Recipient), 01 Sept 2007  
Prize: Fellowship awarded competitively
17. **Best Poster Award from Société de Neuroendocrinologie (France) (€500)**  
Plouffe, B. (Recipient), 01 May 2005  
Prize: Prize (including medals and awards)
18. **Best Oral Presentation Award from Équipe de Physiopathologie Endocrinienne (Canada) (\$200)**  
Plouffe, B. (Recipient), 01 Sept 2004  
Prize: Prize (including medals and awards)

## Research outputs

1. Saha, S., Khanppnavar, B., Maharana, J., Kim, H., C. Carino, C. M., Daly, C., Houston, S., Sharma, S., Zaidi, N., Dalal, A., Mishra, S., Ganguly, M., Tiwari, D., Kumari, P., Deep Jhingan, G., N. Yadav, P., Plouffe, B., Inoue, A., Young Chung, K., ... Shukla, A. K. (2024). Molecular mechanism of distinct chemokine engagement and functional divergence of the human Duffy antigen receptor. *Cell*, 187(17), 4751-4769.e25. <https://doi.org/10.1016/j.cell.2024.07.005>
2. Ding, T., Guseynov, A.-A., Milligan, G., Plouffe, B., & Tikhonova, I. G. (2024). Exploring an intracellular allosteric site of CC-Chemokine receptor 4 from 3D models, probe simulations, and mutagenesis. *ACS Pharmacology & Translational Science*. Advance online publication. <https://doi.org/10.1021/acspsci.4c00330>
3. Daly, C., Guseinov, A. A., Hahn, H., Wright, A., Tikhonova, I. G., Rojas Bie Thomsen, A., & Plouffe, B. (2023).  $\beta$ -arrestin-dependent and -independent endosomal G protein activation by the vasopressin type 2 receptor. *eLife*, 12, Article RP87754. <https://doi.org/10.7554/eLife.87754.3>
4. Daly, C., & Plouffe, B. (2023).  $G_{\alpha 9}$  signalling from endosomes: a new conundrum. *British Journal of Pharmacology*. Advance online publication. <https://doi.org/10.1111/bph.16248>
5. Wright, A., Barabas, P., Curtis, T., & Plouffe, B. (2023). *Secreted frizzled related protein 2: a new target for diabetic retinopathy*. Poster session presented at Pan-Ireland Ophthalmology Day 2023, Belfast, United Kingdom.
6. Wright, A., Barabas, P., Curtis, T., & Plouffe, B. (2023). *Secreted frizzled related protein 2: a new target for diabetic retinopathy*. Poster session presented at World Sight Day 2023, Belfast, United Kingdom.
7. Wright, A., Barabas, P., Curtis, T., & Plouffe, B. (2023). *Secreted frizzled related protein 2: a new target for diabetic retinopathy*. Poster session presented at 3rd Transatlantic GPCR Symposium: Early Career Investigators 2023, virtual, online.
8. Ding, T., Guseynov, A.-A., Plouffe, B., Milligan, G., & Tikhonova, I. (2023). *Mapping allosteric sites on the chemokine receptor 4*. Poster session presented at 11th Adrenoceptor Symposium: Adrenoceptors and GPCR Signalling (satellite meeting of the 19th World Congress of Basic & Clinical Pharmacology 2023), Glasgow, United Kingdom.
9. Guseynov, A.-A., Karlov, D., Garland, S., Plouffe, B., & Tikhonova, I. (2023). *Membrane-facing allosteric sites of GPCRs: search, validation and open-source virtual screening for NTSR1*. Poster session presented at 11th Adrenoceptor Symposium: Adrenoceptors and GPCR Signalling (satellite meeting of the 19th World Congress of Basic & Clinical Pharmacology 2023), Glasgow, United Kingdom.
10. Lal, K., Guseynov, A.-A., Plouffe, B., & Tikhonova, I. (2023). *Structure-based design of PAR2 allosteric modulators*. Poster session presented at 11th Adrenoceptor Symposium: Adrenoceptors and GPCR Signalling (satellite meeting of the 19th World Congress of Basic & Clinical Pharmacology 2023), Glasgow, United Kingdom.
11. Ding, T., Plouffe, B., & Tikhonova, I. (2023). *Mapping allosteric sites on the chemokine receptor 4*. Poster session presented at 8th European Research Network on Signal Transduction Conference 2023, Crete, Greece.
12. Lal, K., Guseynov, A.-A., Plouffe, B., & Tikhonova, I. (2023). *Structure-based design of PAR2 allosteric modulators*. Poster session presented at 8th European Research Network on Signal Transduction Conference 2023, Crete, Greece.
13. Daly, C., & Plouffe, B. (2022). *G protein selectivity and gene regulation by US28 are shaped by the presence or absence of chemokines*. Poster session presented at 2nd International Research Network i-GPCRnet Annual Meeting 2022, Wurzburg, Germany.
14. Hahn, H., Daly, C., Little IV, J., Perry-Hauser, N. A., Inoue, A., Plouffe, B., & Thomsen, A. (2022, Sept 28). Endosomal chemokine receptor signalosomes regulate central mechanisms underlying cell migration. *BioRxiv*. <https://doi.org/10.1101/2022.09.27.509755>

15. Heydenreich, F. M., Plouffe, B., Rizk, A., Milic, D., Zhou, J., Breton, B., Le Gouill, C., Inoue, A., Bouvier, M., & Veprintsev, D. (2022). Michaelis-Menten quantification of ligand signalling bias applied to the promiscuous Vasopressin V2 receptor. *Molecular Pharmacology*, 102(2), 139-149. <https://doi.org/10.1124/molpharm.122.000497>
16. Guseynov, A.-A., Karlov, D., Garland, S., Plouffe, B., & Tikhonova, I. (2022). *Molecular simulations studies to detect allosteric sites of neurotensin receptor 1*. Poster session presented at British Biophysical Society Biennial Meeting 2022, Galway, Ireland.
17. Guseynov, A.-A., Karlov, D., Garland, S., Plouffe, B., & Tikhonova, I. (2022). *Probe-confined MD simulations for the detection of allosteric sites on neurotensin receptor 1*. Poster session presented at 8th Annual CCPBioSim Conference - Frontiers in Biomolecular Simulation 2022, Edinburgh, United Kingdom.
18. Guseynov, A.-A., Karlov, D., Garland, S., Plouffe, B., & Tikhonova, I. (2022). *Neurotensin receptor 1 allosteric sites explored by probe molecular dynamics simulations and BRET-based assays*. Poster session presented at 6th European Research Network on Signal Transduction Conference 2022, virtual, online.
19. Daly, C., Heukers, R., Evergren, E., J Smit, M., & Plouffe, B. (2022). *G protein selectivity and gene regulation by US28 are shaped by the presence or absence of chemokines*. Poster session presented at 6th European Research Network on Signal Transduction Conference 2022, virtual, online.
20. Koers, E., Morgan, B., Heydenreich, F. M., Plouffe, B., Styles, I., & Veprintsev, D. (2022, Feb 25). Cell-to-cell variations in subcellular localisation of V2R are independent of its expression level. *BioRxiv*. <https://doi.org/10.1101/2021.08.09.455709>
21. Plouffe, B., Karamitri, A., Flock, T., Gallion, J. M., Houston, S., Daly, C. A., Bonnefond, A., Guillaume, J.-L., Le Gouill, C., Froguel, P., Lichtarge, O., Deupi, X., Jockers, R., & Bouvier, M. (2022). Structural elements directing G proteins and  $\beta$ -arrestin interactions with the human melatonin type 2 receptor revealed by natural variants. *ACS Pharmacology & Translational Science*, 5(2), 89-101. <https://doi.org/10.1021/acspstsci.1c00239>
22. Hegron, A., Huh, E., Deupi, X., Socrat, B., Gao, W., Le Gouill, C., Canouil, M., Boissel, M., Charpentier, G., Roussel, R., Froguel, P., Plouffe, B., Bonnefond, A., Lichtarge, O., Jockers, R., & Bouvier, M. (2021). Identification of Key Regions Mediating Human Melatonin Type 1 Receptor Functional Selectivity Revealed by Natural Variants. *ACS Pharmacology & Translational Science*, 4(5), 1614-1627. <https://doi.org/10.1021/acspstsci.1c00157>
23. Guseynov, A.-A., Garland, S., Tikhonova, I., & Plouffe, B. (2021). *Optimising BRET Assays to Measure NTSR1 Signalling Bias*. Poster session presented at 5th European Research Network on Signal Transduction, Bari, Italy.
24. Daly, C., Heukers, R., Evergren, E., J Smit, M., & Plouffe, B. (2021). *The viral GPCR US28 activates G $\alpha$ q from early endosomes: potential for alternative therapeutics for glioblastoma*. Poster session presented at 1st Transatlantic ECI GPCR Symposium.
25. Brouwers, B., Mendes de Oliveira, E., Marti-Solano, M., B.F. Monteiro, F., Laurin, S.-A., M. Keogh, J., Henning, E., Bounds, R., Daly, C. A., Houston, S., Ayinampudi, V., Wasiluk, N., Clarke, D., Plouffe, B., Bouvier, M., Babu, M. M., Farooqi, I. S., & Mokrosinski, J. (2021). Human MC4R variants affect endocytosis, trafficking and dimerization revealing multiple cellular mechanisms involved in weight regulation. *Cell Reports*, 34(12), Article 108862. <https://doi.org/10.1016/j.celrep.2021.108862>
26. M. Heydenreich, F., Plouffe, B., Rizk, A., Milic, D., Zhou, J., Breton, B., Le Gouill, C., Inoue, A., Bouvier, M., & Veprintsev, D. B. (2021, Jan 28). Vasopressin V2 is a promiscuous G protein-coupled receptor that is biased by its peptide ligands. *BioRxiv*. <https://doi.org/10.1101/2021.01.28.427950>
27. Imam, A., C. Winnebeck, E., Buchholz, N., Froguel, P., Bonnefond, A., Solimena, M., Ivanova, A., Bouvier, M., Plouffe, B., Charpentier, G., Karamitri, A., Jockers, R., Roenneberg, T., & Vetter, C. (2020). Circadian, sleep and caloric intake phenotyping in Type 2 Diabetes patients with rare melatonin receptor 2 mutations and controls: A Pilot Study. *Frontiers in Physiology*, 11, Article 564140. <https://doi.org/10.3389/fphys.2020.564140>
28. Daly, C., J Smit, M., & Plouffe, B. (2020). The constitutive activity of the viral-encoded G protein-coupled receptor US28 supports a complex signalling network contributing to cancer development. *Biochemical Society Transactions*, 48(4), 1493-1504. <https://doi.org/10.1042/BST20190988>
29. Plouffe, B., Thomsen, A. R. B., & Irannejad, R. (2020). Emerging Role of Compartmentalized G Protein-Coupled Receptor Signaling in the Cardiovascular Field. *ACS Pharmacology & Translational Science*, 3(2), 221-236. <https://doi.org/10.1021/acspstsci.0c00006>
30. Houston, S., Heulet, É., Roberts, C., & Plouffe, B. (2019). *Endosomal G protein signalling by US28 as a new target for glioblastoma multiforme*. Poster session presented at GDR3545 GPCR International Meeting, Montpellier, France.
31. Houston, S., Heulet, É., Roberts, C., & Plouffe, B. (2019). *Endosomal G protein signalling by US28 as a new target for glioblastoma multiforme*. Poster session presented at Annual Research Symposium from the Centre of Membrane Proteins and Receptors, Nottingham, United Kingdom.
32. Mende, F., Hundahl, C., Plouffe, B., Skov, L. J., Sivertsen, B., Madsen, A. N., Lückmann, M., Diep, T. A., Offermanns, S., Frimurer, T. M., Bouvier, M., & Holst, B. (2018). Translating biased signaling in the ghrelin receptor system into differential in vivo functions. *Proceedings of the National Academy of Sciences of the United States of America*, 115(43), E10255-E10264. <https://doi.org/10.1073/pnas.1804003115>

33. Luttrell, L. M., Wang, J., Plouffe, B., Smith, J. S., Yamani, L., Kaur, S., Jean-Charles, P. Y., Gauthier, C., Lee, M. H., Pani, B., Kim, J., Ahn, S., Rajagopal, S., Reiter, E., Bouvier, M., Shenoy, S. K., Laporte, S. A., Rockman, H. A., & Lefkowitz, R. J. (2018). Manifold roles of  $\beta$ -arrestins in GPCR signaling elucidated with siRNA and CRISPR/Cas9. *Science Signaling*, *11*(549), Article eaat7650. <https://doi.org/10.1126/scisignal.aat7650>
34. Karamitri, A., Plouffe, B., Bonnefond, A., Chen, M., Gallion, J., Guillaume, J. L., Hegron, A., Boissel, M., Canouil, M., Langenberg, C., Wareham, N. J., Le Gouill, C., Lukasheva, V., Lichtarge, O., Froguel, P., Bouvier, M., & Jockers, R. (2018). Type 2 diabetes-associated variants of the MT<sub>2</sub> melatonin receptor affect distinct modes of signaling. *Science Signaling*, *11*(545), Article eaan6622. <https://doi.org/10.1126/scisignal.aan6622>
35. Plouffe, B., Karamitri, A., Flock, T., Gallion, J., Bonnefond, A., Guillaume, J.-L., Le Gouill, C., Froguel, P., Lichtarge, O., Deupi, X., Jockers, R., & Bouvier, M. (2017). *Identification of residues in human melatonin type 2 receptor involved in signaling selectivity or general signal transmission using natural variants*. Poster session presented at 18th GPCR Retreat 2017, Ottawa, Ontario, Canada.
36. Stallaert, W., Van Der Westhuizen, E. T., Schönege, A. M., Plouffe, B., Hogue, M., Lukashova, V., Inoue, A., Ishida, S., Aoki, J., Le Gouill, C., & Bouvier, M. (2017). Purinergic receptor transactivation by the  $\beta$ 2-adrenergic receptor increases intracellular Ca<sup>2+</sup> in nonexcitable cells. *Molecular Pharmacology*, *91*(5), 533-544. <https://doi.org/10.1124/mol.116.106419>
37. Möller, D., Banerjee, A., Uzuneser, T. C., Skultety, M., Huth, T., Plouffe, B., Hübner, H., Alzheimer, C., Friedland, K., Müller, C. P., Bouvier, M., & Gmeiner, P. (2017). Discovery of G Protein-Biased Dopaminergics with a Pyrazolo[1,5-a]pyridine Substructure. *Journal of Medicinal Chemistry*, *60*(7), 2908-2929. <https://doi.org/10.1021/acs.jmedchem.6b01857>
38. Cahill, T. J., Thomsen, A. R. B., Tarrasch, J. T., Plouffe, B., Nguyen, A. H., Yang, F., Huang, L. Y., Kahsai, A. W., Bassoni, D. L., Gavino, B. J., Lamerdin, J. E., Triest, S., Shukla, A. K., Berger, B., Little, J., Antar, A., Blanc, A., Qu, C. X., Chen, X., ... Lefkowitz, R. J. (2017). Distinct conformations of GPCR- $\beta$ -arrestin complexes mediate desensitization, signaling, and endocytosis. *Proceedings of the National Academy of Sciences of the United States of America*, *114*(10), 2562-2567. <https://doi.org/10.1073/pnas.1701529114>
39. Karamitri, A., Plouffe, B., Chen, M., Gallion, J., Guillaume, J.-L., Hégron, A., Boissel, M., Canouil, M., Le Gouill, C., & Jockers, R. (2017). *Melatonin MT2 receptor variants associated with type 2 diabetes affect specific subsets of the receptor signaling modalities*. Poster session presented at Molecular Pharmacology Gordon Research Conference 2017 (Italy), Barga, Italy.
40. Plouffe, B., Karamitri, A., Flock, T., Gallion, J., Bonnefond, A., Le Gouill, C., Froguel, P., Lichtarge, O., Deupi, X., Jockers, R., & Bouvier, M. (2017). *Molecular Pharmacology Gordon Research Conference (Italy) - Human melatonin type 2 receptor structural insights revealed by natural variants*. Poster session presented at Molecular Pharmacology Gordon Research Conference 2017 (Italy), Barga, Italy.
41. Hégron, A., Plouffe, B., Bonnefond, A., Le Gouill, C., Froguel, P., Jockers, R., & Bouvier, M. (2016). *Functional characterization of natural variants of melatonin type 1 receptor*. Poster session presented at 17th GPCR Retreat (USA), Chicago, Illinois, United States.
42. Thomsen, A. R. B., Plouffe, B., Cahill, T. J., Shukla, A. K., Tarrasch, J. T., Dosey, A. M., Kahsai, A. W., Strachan, R. T., Pani, B., Mahoney, J. P., Huang, L., Breton, B., Heydenreich, F. M., Sunahara, R. K., Skiniotis, G., Bouvier, M., & Lefkowitz, R. J. (2016). GPCR-G Protein- $\beta$ -Arrestin Super-Complex Mediates Sustained G Protein Signaling. *Cell*, *166*(4), 907-919. <https://doi.org/10.1016/j.cell.2016.07.004>
43. Bradley, S. J., Wiegman, C. H., Iglesias, M. M., Kong, K. C., Butcher, A. J., Plouffe, B., Goupil, E., Bourgognon, J. M., Macedo-Hatch, T., Legouill, C., Russell, K., Laporte, S. A., König, G. M., Kostenis, E., Bouvier, M., Chung, K. F., Amrani, Y., & Tobin, A. B. (2016). Mapping physiological G protein-coupled receptor signaling pathways reveals a role for receptor phosphorylation in airway contraction. *Proceedings of the National Academy of Sciences of the United States of America*, *113*(16), 4524-4529. <https://doi.org/10.1073/pnas.1521706113>
44. Heindenreich, F., Plouffe, B., Milic, D., Rizk, A., Bouvier, M., & Veprintsev, D. (2016). *Understanding biased signalling of peptide ligands at Vasopressin V2 receptor*. Poster session presented at Keystone Symposia G protein-coupled receptors: Structures, signaling and drug discovery 2016, Keystone, Colorado, United States.
45. Plouffe, B., Karamitri, A., Jockers, R., & Bouvier, M. (2015). *Determination of signaling signature of 40 SNPs found in melatonin type 2 receptor: from ligand-bias signaling to mutation-bias signaling*. Poster session presented at Institute for Research in Immunology and Cancer Student Recruitment Event 2015, Montréal, Canada.
46. Plouffe, B., Karamitri, A., Jockers, R., & Bouvier, M. (2014). *Determination of signaling signature of 40 SNPs found in melatonin type 2 receptor: from ligand-bias signaling to mutation-bias signaling*. Poster session presented at ASCEPT-MPGPCR Joint Scientific Meeting (Australia), Melbourne, Australia.
47. Plouffe, B., Karamitri, A., Jockers, R., & Bouvier, M. (2014). *Determination of signaling signature of 40 SNPs found in melatonin type 2 receptor: from ligand-bias signaling to mutation-bias signaling*. Poster session presented at 15th GPCR Retreat (Canada), Bromont, Quebec, Canada.
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53. Plouffe, B., D'Aoust, J. P., Laquerre, V., Liang, B., & Tiberi, M. (2010). Probing the constitutive activity among dopamine D1 and D5 receptors and their mutants. In *Methods in Enzymology* (C ed., pp. 295-328). (Methods in Enzymology; Vol. 484, No. C). Academic Press Inc., U.S.. <https://doi.org/10.1016/B978-0-12-381298-8.00016-2>
54. Plouffe, B., & Tiberi, M. (2009). *1st Annual Brain Health Research Day (Canada) - Evidence for a PKC/phorbol ester-dependent toggle switch regulating GPCR responsiveness: insight from dopaminergic D1-like receptors*. Poster session presented at 1st Annual Brain Health Research Day (Canada), Ottawa, Ontario, Canada.
55. Plouffe, B., & Tiberi, M. (2008). *Five serine residues located on the third intracellular loop of human D5 dopaminergic receptor shape the extent of protein kinase C-mediated D5 desensitization*. Poster session presented at 9th GPCR Retreat (Canada), Bromont, Quebec, Canada.
56. Yang, X., Plouffe, B., Sedaghat, K., Gorji, H., Liang, B., & Tiberi, M. (2008). *Regulation of the dopamine D3 receptor and adenylyl cyclase type 5 signalosome by a sodium orthovanadate-sensitive pathway*. Poster session presented at 9th GPCR Retreat (Canada), Bromont, Quebec, Canada.
57. Plouffe, B., & Tiberi, M. (2008). *Opposite regulation of human D1-like dopaminergic responsiveness by protein kinase C is shaped by two critical serine residues of the third intracellular loop of human D5 dopaminergic receptor*. Poster session presented at Experimental Biology 2008 (USA), San Diego, Canada.
58. Paquette, B., Baptiste, C., Therriault, H., Arguin, G., Plouffe, B., & Lemay, R. (2007). In vitro irradiation of basement membrane enhances the invasiveness of breast cancer cells. *British Journal of Cancer*, *97*(11), 1505-1512. <https://doi.org/10.1038/sj.bjc.6604072>
59. Plouffe, B., & Tiberi, M. (2007). *Structural determinants of human D1 and D5 dopaminergic receptors underlying PKC-mediated subtype-specific regulation*. Poster session presented at 11th Annual Y.D. Lapierre Resident Research Day, University of Ottawa (Canada), Ottawa, Ontario, Canada.
60. Murugaiah, A. M. S., Wallinder, C., Mahalingam, A. K., Wu, X., Wan, Y., Plouffe, B., Botros, M., Karlén, A., Hallberg, M., Gallo-Payet, N., & Alterman, M. (2007). Selective angiotensin II AT<sub>2</sub> receptor agonists devoid of the imidazole ring system. *Bioorganic and Medicinal Chemistry*, *15*(22), 7166-7183. <https://doi.org/10.1016/j.bmc.2007.07.026>
61. Plouffe, B., & Tiberi, M. (2007). *Structural determinants of human D1 and D5 dopaminergic receptors underlying PKC-mediated subtype-specific regulation*. Poster session presented at 8th GPCR Retreat, London, Ontario, Canada.
62. Plouffe, B., & Tiberi, M. (2006). *Study of the differential regulation of the human dopamine D1 and D5 receptor responsiveness by phorbol-12-myristate-13-acetate*. Poster session presented at 10th Annual Y.D. Lapierre Resident Research Day (Canada), University of Ottawa (Canada), Ottawa, Ontario, Canada.
63. Wu, X., Wan, Y., Mahalingam, A. K., Murugaiah, A. M. S., Plouffe, B., Botros, M., Karlén, A., Hallberg, M., Gallo-Payet, N., & Alterman, M. (2006). Selective angiotensin II AT<sub>2</sub> receptor agonists: Arylbenzylimidazole structure-activity relationships. *Journal of Medicinal Chemistry*, *49*(24), 7160-7168. <https://doi.org/10.1021/jm0606185>
64. Plouffe, B., & Tiberi, M. (2006). *Study of the differential regulation of the human dopamine D1 and D5 receptor responsiveness by phorbol-12-myristate-13-acetate*. Poster session presented at 7th GPCR Retreat (USA), Detroit, Michigan, United States.
65. Plouffe, B., Guimond, M. O., Beaudry, H., & Gallo-Payet, N. (2006). Role of tyrosine kinase receptors in angiotensin II AT<sub>2</sub> receptor signaling: Involvement in neurite outgrowth and in p42/p44<sup>mapk</sup> activation in NG108-15 cells. *Endocrinology*, *147*(10), 4646-4654. <https://doi.org/10.1210/en.2005-1315>
66. Georgsson, J., Rosenström, U., Wallinder, C., Beaudry, H., Plouffe, B., Lindeberg, G., Botros, M., Nyberg, F., Karlén, A., Gallo-Payet, N., & Hallberg, A. (2006). Short pseudopeptides containing turn scaffolds with high AT<sub>2</sub> receptor affinity. *Bioorganic and Medicinal Chemistry*, *14*(17), 5963-5972. <https://doi.org/10.1016/j.bmc.2006.05.019>

67. Georgsson, J., Sköld, C., Plouffe, B., Lindeberg, G., Botros, M., Larhed, M., Nyberg, F., Gallo-Payet, N., Gogoll, A., Karlén, A., & Hallberg, A. (2005). Angiotensin II pseudopeptides containing 1,3,5-trisubstituted benzene scaffolds with high AT<sub>2</sub> receptor affinity. *Journal of Medicinal Chemistry*, 48(21), 6620-6631. <https://doi.org/10.1021/jm050280z>
68. Rosenström, U., Sköld, C., Plouffe, B., Beaudry, H., Lindeberg, G., Botros, M., Nyberg, F., Wolf, G., Karlén, A., Gallo-Payet, N., & Hallberg, A. (2005). New selective AT<sub>2</sub> receptor ligands encompassing a  $\gamma$ -turn mimetic replacing the amino acid residues 4-5 of angiotensin II act as agonists. *Journal of Medicinal Chemistry*, 48(12), 4009-4024. <https://doi.org/10.1021/jm049149z>
69. Wan, Y., Wallinder, C., Plouffe, B., Beaudry, H., Mahalingam, A. K., Wu, X., Johansson, B., Holm, M., Botoros, M., Karlén, A., Pettersson, A., Nyberg, F., Fändriks, L., Gallo-Payet, N., Hallberg, A., & Alterman, M. (2004). Design, synthesis, and biological evaluation, of the first selective nonpeptide AT<sub>2</sub> receptor agonist. *Journal of Medicinal Chemistry*, 47(24), 5995-6008. <https://doi.org/10.1021/jm049715t>
70. Plouffe, B., Gendron, L., Payet, M., & Gallo-Payet, N. (2004). *Rôle du récepteur TrkA dans la signalisation induite par le récepteur AT2 de l'angiotensine II. Implication dans l'activation de p42/p44mapk et l'élongation neuritique des cellules NG10815*. Poster session presented at 32e Colloque de la Société de Neuroendocrinologie (France), Hérault, France.
71. Wallinder, C., Wan, Y., Plouffe, B., Beaudry, H., Mahalingam, A. K., Wu, X., Johansson, B., Holm, M., Botoros, M., Karlén, A., Pettersson, A., Nyberg, F., Fändriks, L., Gallo-Payet, N., Hallberg, A., & Alterman, M. (2004). *First selective nonpeptide AT2 receptor agonist. Design, synthesis and biologic evaluation*. Poster session presented at XVIIIth International Symposium on Medicinal Chemistry, Malmo, Sweden.

## Activities

1. **Investigating the role of Secreted Frizzled-related Protein 2 in diabetic retinopathy**  
Wright, A. (Speaker) & Plouffe, B. (Contributor)  
23 Jun 2024  
Activity: Talk or presentation types › Oral presentation
2. **Gordon Research Conference - Phosphorylation and G-Protein Mediated Signaling Networks (USA)**  
Plouffe, B. (Invited speaker)  
09 Jun 2024 → 14 Jun 2024  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
3. **The conundrum linked to endosomal Gq signalling: toward new answers**  
Daly, C. (Speaker) & Plouffe, B. (Advisor)  
09 Jun 2024  
Activity: Talk or presentation types › Oral presentation
4. **Seminar - Dept. of Pharmacology and Physiology, University of Sherbrooke (Canada)**  
Plouffe, B. (Invited speaker)  
07 Jun 2024  
Activity: Talk or presentation types › Public lecture/debate/seminar
5. **Endocrine Metabolic GPCRs conference 2024 (UK)**  
Plouffe, B. (Invited speaker)  
23 Apr 2024  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
6. **Northern Ireland Science Festival 2024**  
Plouffe, B. (Participant)  
24 Feb 2024  
Activity: Participating in or organising an event types › Participation in Festival/Exhibition
7. **Medical Mini Interviews examiner**  
Plouffe, B. (Examiner)  
17 Jan 2024  
Activity: Examination types › Other examination
8. **Biotechnology & Biological Sciences Research Council (External organisation)**  
Plouffe, B. (Member)  
01 Jan 2024 → 31 Dec 2026  
Activity: Membership types › Membership of external research organisation
9. **Seminar - Imperial Membrane Receptor Network, Imperial College London (UK)**  
Plouffe, B. (Invited speaker)  
06 Jun 2023  
Activity: Talk or presentation types › Public lecture/debate/seminar



10. **Medical Mini Interviews examiner**  
Plouffe, B. (Examiner)  
15 Mar 2023  
Activity: Examination types › Other examination
11. **Seminar - School of Molecular Bioscience, University of Glasgow (UK)**  
Plouffe, B. (Invited speaker)  
08 Mar 2023  
Activity: Talk or presentation types › Public lecture/debate/seminar
12. **Northern Ireland Science Festival 2023**  
Plouffe, B. (Participant)  
18 Feb 2023  
Activity: Participating in or organising an event types › Participation in Festival/Exhibition
13. **Wellcome-Wolfson Institute for Experimental Medicine (Organisational unit)**  
Plouffe, B. (Member)  
16 Feb 2023 → 15 Feb 2024  
Activity: Membership types › Membership of peer review panel or committee
14. **2nd iGPCRnet International Research Network on GPCRs meeting (Germany)**  
Plouffe, B. (Invited speaker)  
30 Sept 2022 → 01 Oct 2022  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
15. **6th European Research Network on Signal Transduction conference (online)**  
Plouffe, B. (Invited speaker)  
30 Mar 2022  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
16. **6th European Research Network on Signal Transduction Conference 2022**  
Plouffe, B. (Participant)  
28 Mar 2022 → 31 Mar 2022  
Activity: Participating in or organising an event types › Participation in conference
17. **Frontiers in Pharmacology (Journal)**  
Plouffe, B. (Guest editor)  
02 Mar 2022 → 20 Jun 2023  
Activity: Publication peer-review and editorial work types › Editorial activity
18. **Wellcome-Wolfson Institute for Experimental Medicine (Organisational unit)**  
Plouffe, B. (Member)  
09 Feb 2022 → ...  
Activity: Membership types › Membership of peer review panel or committee
19. **Medical Mini Interviews examiner**  
Plouffe, B. (Examiner)  
13 Dec 2021  
Activity: Examination types › Other examination
20. **Seminar - Dept. of Molecular Pathobiology, New York University College of Dentistry (USA)**  
Plouffe, B. (Invited speaker)  
26 May 2021  
Activity: Talk or presentation types › Public lecture/debate/seminar
21. **Seminar - Dept. of Pharmacy, Pharmaceutical Sciences & Biology, Bahai'I Institute for Higher Education (Iran)**  
Plouffe, B. (Invited speaker)  
29 Nov 2020  
Activity: Talk or presentation types › Public lecture/debate/seminar
22. **Medical Mini Interviews examiner**  
Plouffe, B. (Examiner)  
11 Mar 2020  
Activity: Examination types › Other examination
23. **Queen's University Belfast (External organisation)**  
Plouffe, B. (Member)  
31 Jan 2020 → ...  
Activity: Membership types › Membership of peer review panel or committee
24. **Inaugural Meeting of the European Research Network in Signal Transduction - GPCR Pharmacology: Activation, Signalling and Drug Design**  
Plouffe, B. (Participant)  
28 Oct 2019 → 30 Oct 2019  
Activity: Participating in or organising an event types › Participation in conference

25. **Biochemical Society - Cell Signaling and Intracellular Trafficking in Cancer Biology: Interplay, Targeting and Therapy (Italy)**  
Plouffe, B. (Invited speaker)  
23 Oct 2019  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
26. **GDR3545 GPCR International Meeting (France)**  
Plouffe, B. (Participant)  
09 Oct 2019 → 11 Oct 2019  
Activity: Participating in or organising an event types › Participation in conference
27. **Annual Research Symposium from the Centre of Membrane Proteins and Receptors (U.K.)**  
Plouffe, B. (Participant)  
26 Sept 2019  
Activity: Participating in or organising an event types › Participation in conference
28. **Seminar - Dept. of Pharmaceutical Chemistry, Philipps University Marburg (Germany)**  
Plouffe, B. (Invited speaker)  
12 Jun 2018  
Activity: Talk or presentation types › Public lecture/debate/seminar
29. **Seminar - Medical School, University of Nottingham (UK)**  
Plouffe, B. (Invited speaker)  
04 Jun 2018  
Activity: Talk or presentation types › Public lecture/debate/seminar
30. **Seminar - Dept. of Medicinal Chemistry, Virginia Commonwealth University (USA)**  
Plouffe, B. (Invited speaker)  
24 May 2018  
Activity: Talk or presentation types › Public lecture/debate/seminar
31. **Experimental Biology 2018 (USA)**  
Plouffe, B. (Participant)  
21 Apr 2018 → 25 Apr 2018  
Activity: Participating in or organising an event types › Participation in conference
32. **18th GPCR Retreat 2017 (Canada)**  
Plouffe, B. (Participant)  
19 Oct 2017 → 21 Oct 2017  
Activity: Participating in or organising an event types › Participation in conference
33. **Seminar - Institute for Immunology and Cancer, University of Montreal (Canada)**  
Plouffe, B. (Invited speaker)  
30 Sept 2017  
Activity: Talk or presentation types › Public lecture/debate/seminar
34. **FASEB Science Research Conferences on GRKs and Arrestins: From Structure to Disease (USA)**  
Plouffe, B. (Participant)  
18 Jun 2017 → 23 Jun 2017  
Activity: Participating in or organising an event types › Participation in conference
35. **7th Scientific Day of the Institute for Research in Immunology and Cancer, University of Montreal (Canada)**  
Plouffe, B. (Invited speaker)  
26 May 2017  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
36. **Molecular Pharmacology Gordon Research Conference 2017 (Italy)**  
Plouffe, B. (Participant)  
12 Mar 2017 → 17 Mar 2017  
Activity: Participating in or organising an event types › Participation in conference
37. **Molecular Pharmacology Gordon Research Seminars (Italy)**  
Plouffe, B. (Invited speaker)  
12 Mar 2017  
Activity: Talk or presentation types › Invited or keynote talk at national or international conference
38. **17th GPCR Retreat (USA)**  
Plouffe, B. (Participant)  
13 Oct 2016 → 15 Oct 2016  
Activity: Participating in or organising an event types › Participation in conference
39. **Rencontre Louis-Philippe-Bouthillier (Canada)**  
Plouffe, B. (Participant)  
01 May 2016  
Activity: Participating in or organising an event types › Participation in conference

40. **Institute for Research in Immunology and Cancer Student Recruitment Event (Canada)**  
Plouffe, B. (Participant)  
18 Jun 2015 → 21 Jun 2015  
Activity: Participating in or organising an event types › Participation in Festival/Exhibition
41. **Seminar - Institute for Research in Immunology and Cancer, University of Montreal (Canada)**  
Plouffe, B. (Invited speaker)  
24 Apr 2015  
Activity: Talk or presentation types › Public lecture/debate/seminar
42. **MELA-BETES Joint Translational Call Meeting (France)**  
Plouffe, B. (Invited speaker)  
20 Mar 2015  
Activity: Talk or presentation types › Invited talk
43. **ASCEPT-MPGPCR Joint Scientific Meeting (Australia)**  
Plouffe, B. (Participant)  
07 Dec 2014 → 11 Dec 2014  
Activity: Participating in or organising an event types › Participation in conference
44. **15th GPCR Retreat (Canada)**  
Plouffe, B. (Participant)  
02 Oct 2014 → 04 Oct 2014  
Activity: Participating in or organising an event types › Participation in conference
45. **MELA-BETES Joint Translational Call Meeting (Germany)**  
Plouffe, B. (Invited speaker)  
23 Jun 2014  
Activity: Talk or presentation types › Invited talk
46. **MELA-BETES Joint Translational Call Meeting (Canada)**  
Plouffe, B. (Invited speaker)  
03 Oct 2013  
Activity: Talk or presentation types › Invited talk
47. **XXVIIe Symposium Groupe d'étude des protéines membranaires (Canada)**  
Plouffe, B. (Participant)  
01 Jun 2013  
Activity: Participating in or organising an event types › Participation in conference
48. **Molecular Pharmacology Gordon Research Conference (Italy)**  
Plouffe, B. (Participant)  
21 Apr 2013 → 26 Apr 2013  
Activity: Participating in or organising an event types › Participation in conference
49. **MELA-BETES Joint Translational Call Meeting (Germany)**  
Plouffe, B. (Invited speaker)  
21 Dec 2012  
Activity: Talk or presentation types › Invited talk
50. **11th GPCR Retreat (Canada)**  
Plouffe, B. (Participant)  
01 Jun 2010  
Activity: Participating in or organising an event types › Participation in conference
51. **2nd Annual Brain Health Research Day (Canada)**  
Plouffe, B. (Participant)  
01 Jun 2010  
Activity: Participating in or organising an event types › Participation in conference
52. **1st Annual Brain Health Research Day (Canada)**  
Plouffe, B. (Participant)  
01 Jun 2009  
Activity: Participating in or organising an event types › Participation in conference
53. **Molecular Pharmacology Gordon Research Conference (Italy)**  
Plouffe, B. (Participant)  
31 May 2009 → 05 Jun 2009  
Activity: Participating in or organising an event types › Participation in conference
54. **9th GPCR Retreat (Canada)**  
Plouffe, B. (Participant)  
01 Oct 2008  
Activity: Participating in or organising an event types › Participation in conference

55. **Experimental Biology 2008 (USA)**  
Plouffe, B. (Participant)  
05 Apr 2008 → 09 Apr 2008  
Activity: Participating in or organising an event types › Participation in conference
56. **11th Annual Y.D. Lapierre Resident Research Day, University of Ottawa (Canada)**  
Plouffe, B. (Participant)  
01 Dec 2007  
Activity: Participating in or organising an event types › Participation in conference
57. **8th GPCR Retreat**  
Plouffe, B. (Participant)  
27 Sept 2007 → 29 Sept 2007  
Activity: Participating in or organising an event types › Participation in conference
58. **10th Annual Y.D. Lapierre Resident Research Day (Canada), University of Ottawa (Canada)**  
Plouffe, B. (Participant)  
01 Dec 2006  
Activity: Participating in or organising an event types › Participation in conference
59. **7th GPCR Retreat (USA)**  
Plouffe, B. (Participant)  
01 Oct 2006  
Activity: Participating in or organising an event types › Participation in conference
60. **7e Journée Scientifique de l'Équipe de Physiopathologie Endocrinienne (Canada)**  
Plouffe, B. (Invited speaker)  
01 May 2005  
Activity: Talk or presentation types › Oral presentation
61. **32e Colloque de la Société de Neuroendocrinologie (France)**  
Plouffe, B. (Participant)  
01 Sept 2004  
Activity: Participating in or organising an event types › Participation in conference
62. **6e Journée Scientifique de l'Équipe de Physiopathologie Endocrinienne (Canada)**  
Plouffe, B. (Invited speaker)  
01 Sept 2004  
Activity: Talk or presentation types › Oral presentation

## Press/Media

### Guest at Dr GPCR Podcast

Plouffe, B.

27/07/2022

1 Media contribution